

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) Method for producing plants with at least one altered ~~altering a plant~~ characteristic selected from ~~one or more of~~ increased yield, increased biomass, altered architecture ~~[[or]]~~and altered cell division of the plant compared to a control plant, said method comprising increasing expression in ~~[[the]]~~ plants of a an ~~isolated~~ nucleic acid sequence encoding plant class-2 non-symbiotic haemoglobin by transforming said plants with a nucleic acid sequence encoding plant class-2 non-symbiotic haemoglobin to produce a transformed plants, said ~~isolated~~ nucleic acid sequence being SEQ ID NO:3 or a nucleic acid sequence encoding the amino acid sequence of SEQ ID NO:4, wherein ~~such that~~ the plant characteristic selected from one or more of increased yield, increased biomass, altered architecture or altered cell division is altered, and

selecting from the transformed plants those transformed plants which have at least one of said altered plants characteristics.

2. (Original) Method of claim 1, wherein said increased yield comprises increased seed yield.

Claims 3-30. (Canceled)